

WHAT IS CLAIMED IS:

1. An observation optical system comprising:
an objective optical part which forms an image
of an object, and has a first lens unit with a
5 negative power and a second lens unit with a positive
power arranged from an object side in the order named,
said second lens unit being capable of moving in a
direction including a component perpendicular to an
optical axis to stabilize an image;
10 an image inverting part which converts an image
formed by said objective optical part into an erect
image; and
an eyepiece optical part which guides the erect
image converted by said image inverting part to an
15 observer.
2. A system according to claim 1, wherein
letting F_o be a focal length of the overall objective
optical part, f_1 be a focal length of said first lens
20 unit, f_2 be a focal length of said second lens unit,
and D_{12} be a distance between said first lens unit
and said second lens unit, conditions defined by
$$0.1 \leq -F_o/f_1 \leq 1.0$$
$$1.1 \leq F_o/f_2 \leq 3.0$$
$$0.01 \leq D_{12}/F_o \leq 0.2$$

25 are satisfied.

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3. A system according to claim 1, wherein said second lens unit can move in the direction perpendicular to the optical axis.

5 4. A system according to claim 1, wherein said second lens unit can swing about a point on the optical axis.

10 5. A system according to claim 4, wherein letting F_o be a focal length of the overall objective optical part, f_1 be a focal length of said first lens unit, f_2 be a focal length of said second lens unit, D_{12} be a distance between said first lens unit and said second lens unit, and T_c be a distance from a
15 vertex of an object-side surface of said second lens unit to a swing center (when an image direction is a positive direction), conditions defined by

$$0.1 \leq -F_o/f_1 \leq 1.0$$

$$1.1 \leq F_o/f_2 \leq 3.0$$

20 $0.01 \leq D_{12}/F_o \leq 0.2$

$$0.1 \leq T_c/F_o \leq 0.7$$

are satisfied.

25 6. A system according to claim 1, wherein said first lens unit consists of one positive lens element and one negative lens element, and said second lens unit consists of one positive

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lens element.

7. A system according to claim 6, wherein said first lens unit has a positive lens element with a convex surface facing the object side and a negative lens element with a concave surface facing the image side which are arranged from the object side in the order named.

8. A system according to claim 6, wherein said first lens unit consists of a lens component formed by cementing the positive lens element to the negative lens element.

9. A system according to claim 6, wherein said second lens unit consists of a positive lens element having a convex surface facing the object side.

10. A system according to claim 1, wherein letting β be a magnification of said second lens unit, an antivibration sensitivity S_i of said second lens unit satisfies a condition defined by

$$|S_i| = |1 - \beta| > 1$$

11. An observation device comprising said observation optical system defined in claim 1.